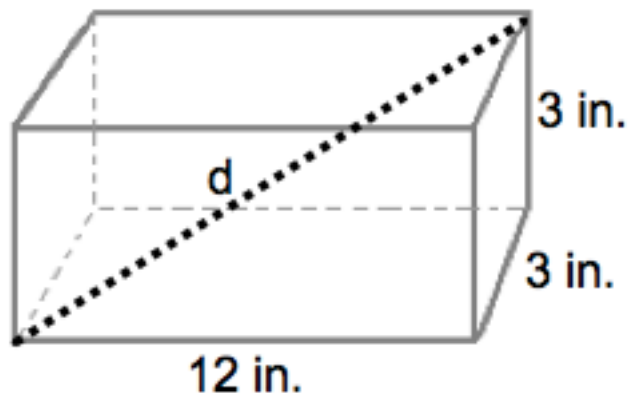
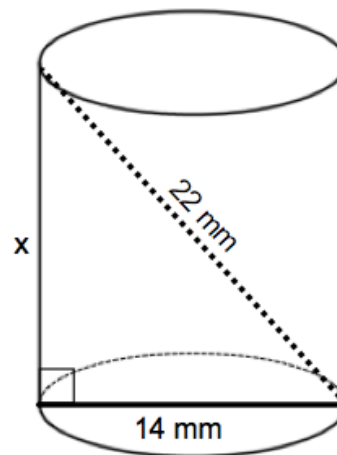


Name \_\_\_\_\_

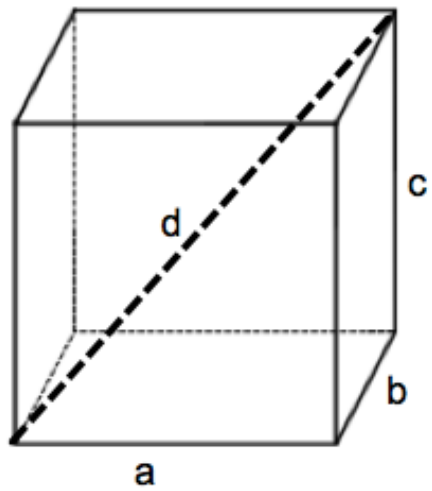
Hour \_\_\_\_\_

**PYTHAGOREAN THEOREM in 3-D DAY 2**

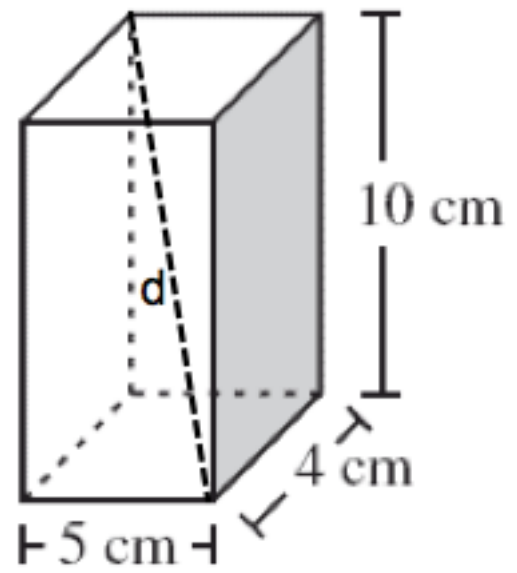
Find the length of  $d$  using the Pythagorean Theorem. Shade and redraw the right triangle(s) for each diagram. Round all answers to the nearest hundredth if necessary.

1. Solve for  $d$ .2. Solve for  $x$ .

3.  $a = 10\text{ cm}$ ,  $b = 10\text{ cm}$ ,  $c = 10\text{ cm}$ . Solve for  $d$ .

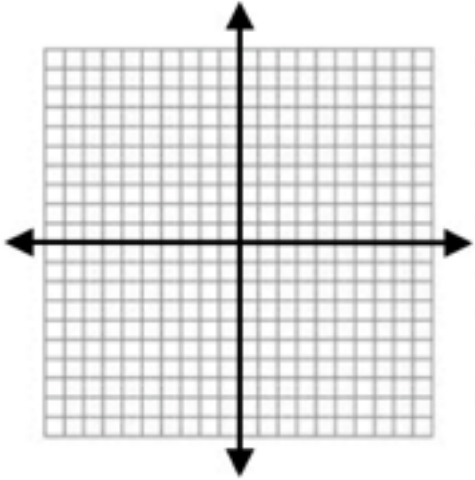


4. Solve for  $d$ .

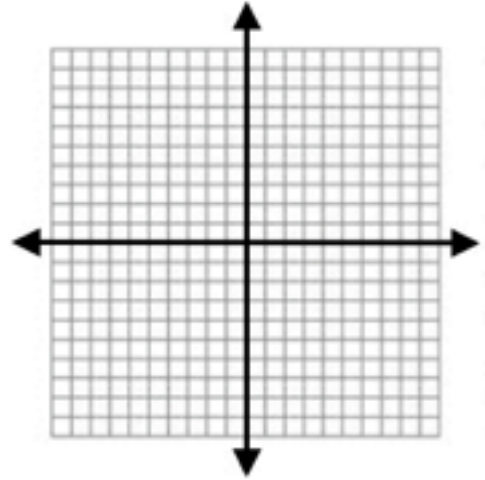


Calculate the distance between the two points.

5.  $(6, 3)$  &  $(-2, -4)$



6.  $(0, 9)$  &  $(0, -4)$



Draw a right triangle to match the description and solve for the unknown side. Round answers to the nearest hundredth if necessary!

7. To get to the skate park from school you need to travel 4 miles east and 7 miles south. How far is school from the skate park?

8. Taryn is mountain climbing with Kadin and has just climbed a 16-meter vertical rock face. Kadin is standing 12 meters away from the bottom of the cliff, looking up at Taryn. How far away are Taryn and Kadin?

9. Mackenzie measured the floor of her storage unit, which is rectangular. It is 12 meters wide and 13 meters from one corner to opposite corner. How long is the storage unit?